

Bridge Inspection										
Bridge File Number	75193 W-2 Bridge					Form Type	PSR			
Year Built/Year Supstr	1961/1961					Lot No.	4			
Bridge or Town Name	SPRUCE GROVE					Inspector Name	Eric Carcoux			
Located Over	CNR					Inspector Class	BR CLS A			
Located On	16A:16 L1 0.998					Assistant Name				
Water Body Cl./Year						Assistant Class				
Navigabil. Cl./Year						Inspection Date	10-Aug-2012			
Legal Land Location	SW SEC 6 TWP 53 RGE 26 W4M					Data Entry By	Theresa Lacusta			
Longitude, Latitude	-113:50:05, 53:32:36					Data Entry Date	18-Sep-2012			
Road Authority	Alberta Transportation (AIT)					Reviewer Name	Stew Hagan			
Contract Main. Area	CMA11					Review Date	05-Sep-2012			
Clear Roadway/Skew	11.6 / -45 deg. (LHF)					Dept. Reviewer Name	Brent Herrick			
AADT/Year	26,380 / 2011 (A)					Dept. Review Date	09-Oct-2012			
Road Classification	RAD-412.4-120					Follow-Up By				
Detour Length (km)	1									
Allowable Load (t):	Single	CS1 43 GIRDER			Semi	CS2 56 GIRDER		Train	CS3 74 GIRDER	----> On Critical Spans ---->Critical Member
Design Loading:	HS20									----> Primary Span

Posting Information										
Required Vert. Clearance Posting (m)										
Posted Vertical Clearance (Y/N)					No					
Posted:	Lane	NB	On Bridge (m)		In Advance (Y/N)		Lane	SB	On Bridge (m)	In Advance (Y/N)
Remarks	Not required.									
Required Load Posting (t)					Single		Semi		Truck Train	
Posted Loading (t)					Single		Semi		Truck Train	
Posted:	Lane	NB	At Junction (Y/N)		In Advance (Y/N)		At Bridge (Y/N)			
Posted:	Lane	SB	At Junction (Y/N)	No	In Advance (Y/N)	No	At Bridge (Y/N)	No		
Remarks	Not required.									
Hazard Marker At Bridge (Y/N)					No					
Remarks					Not required.					
Other Sign Types					Information, Speed.					

Utilities (Located at)									
Utility Attachments	POWER UTILITIES-POWER LINE								
Telephone	North r/w.					Gas			
Power	2 wires North r/w.					Municipal			
Others						Problem (Y/N)	No		
Remarks	Power from North r/w comes to structure for cathodic protection.								

Approach Road									
					<b>Last</b>	<b>Now</b>	<b>Explanation of Condition</b>		
Horizontal Alignment					6	6	Road is on a horizontal "S" curve with a crest curve limiting sight distance.		
Vertical Alignment					6	6			
Roadway Width (m)					11.400				
Approach Bump					6	6			
Guardrail (Y/N)					Yes				
Guardrail					6	6			
Length (m)					45.600				
Current Standard (Y/N)					Yes				
Termination Type					Turned Down				
Drainage					6	6			
<b>Approach Road General Rating</b>					<b>6</b>	<b>6</b>			

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : PO, 3 Spans, Lengths(m): 19.5-19.5-19.5, A-Ident Number: )					
<b>Special Features</b>					
Special Feature		N	N	Locked - no key.	
(SType : <b>CATH PROTECTION</b> )					
Special Feature			X		
(Type : )					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	
<b>Last</b>					
<b>Now</b>					
Wearing Surface		8	7	SF W/Fibre	
(Material Type : <b>CONCRETE</b> )					
(Thickness(mm) : <b>150</b> )					
Lateral Connection Problem (Y/N)	No				
Deck Top		N	N		
Deck Rideability		7	7		
Deck Joints		8	7		
Temperature (deg. C)		22			
(Expansion Type : <b>GLAND (WABO-MAUER, TRANSFLEX, ETC)</b> )					
(Fixed Type : )					
Gap Size (mm)		Gap Location			
73	W. abut				
80	W. pier				
74	E. pier				
75	E. abut				
Deck Drainage		7	7	No deck drains.	
Drains Clogged (Y/N)		No			
Curbs/Median		8	7		
(Curb Type : <b>Standard</b> )					
Scaling (Percent Area)		0			
Bridge Rail		8	7		
(Type : <b>GALVANIZED STEEL BRIDGE TUBE</b> )					
Bridge Rail Posts		8	7		
(Type : <b>GALVANIZED POST STEEL;GALVANIZED POST STEEL</b> )					
Bridge Rail/Posts Coating		8	7		
(Type : <b>GALVANIZED</b> )					
Sidewalk		X	X		
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
<b>Last</b>					
<b>Now</b>					
Girders		5	5	Crack/chips at end of shoe plate, typical.	
Cracking (Y/N)		Yes			
Spalling (Percent Area)		0			
(Number Of Girders : <b>21</b> )					

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : PO, 3 Spans, Lengths(m): 19.5-19.5-19.5, A-Ident Number: )				
Diaphragms/Cross Frame		6	6	
Bearings		4	5	
Temperature (deg. C)	22			
(Expansion Type : <b>SLIDING PLATE</b> )				
(Fixed Type : <b>PINNED BEARING</b> )				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		5	5	Stained from train exhaust. 2 forms left from deck repair. Rust and salt stains in isolated areas. Narrow crack @ span 1. Narrow crack between G4 & G5 at span 3.
Stains (Percent Area)	5			
<b>Span Alignment Problems</b>				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
<b>Superstructure General Rating</b>		<b>5</b>	<b>5</b>	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
<b>Abutments</b>				
Bearing Seats/Caps		6	6	
(Type : <b>CONCRETE</b> )				
Backwalls/Breastwalls		6	6	
Wingwalls		6	6	
Piles		N	N	
Paint/Coating		X	X	
Abutment Stability		6	6	
Scour/Erosion		6	6	
<b>Piers/Bents</b>				
(Type : <b>PIER-COLUMN</b> )				
Bearing Seats/Caps		5	5	Underside of pier caps has rust stains from insufficient cover.
(Type : <b>CONCRETE</b> )				
(Total Number of Bearing Piles : <b>7:7</b> )				
Pier Shaft/Piles		6	6	
Bracing/Struts/Sheathing		X	X	
Nose Plate		X	X	
Paint/Coating		X	X	
(Colour Description : )				
(Colour Code : )				
Pier Stability		5	5	Slope protection jammed against piles at toe of East slope.
Scour		X	X	
Debris (Y/N)	No			
<b>Substructure General Rating</b>		<b>5</b>	<b>5</b>	

Structure Usage				
		Last	Now	Explanation of Condition
<b>Grade Separation</b>				
Road Alignment		X	X	
Traffic Safety Features		X	X	
Type				
Slope Protection		5	5	The bottom 2 sections are buckling on West side & settling on the East side. East abutment slabs are beginning to separate.
(Type : <b>CONCRETE; CONCRETE</b> )				
Bank Stability		5	5	
Drainage		7	7	
<b>Grade Separation General Rating</b>		<b>5</b>	<b>5</b>	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL							
GALVANIZE/PAINT BRIDGE RAIL							
SEAL CURBS							
PATCH DECK							
SEAL DECK							
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS							
RESET/ PAINT BEARINGS							
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>55.6/55.6</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>57.7/57.7</b>	Est. Repl. Yr	2035	Maint. Req. (Y/N)	No
Special Comments for Next Inspection			Department Comments				
Maintenance Reviewed By			Date			Estimated Total	0
Proposed Long-Term Strategy							
On 3-Year Program (Y/N)							
Proposed Action							
Previous Inspector's Name	Shane Hall		Previous Assistant's Name				
Next Inspection Date	10-May-2014		Previous Inspection Date	06-Oct-2010			
Inspection Cycle (Default) (months)	21						
Comment							